

HISTORIC AMERICAN ENGINEERING RECORD

HAER
ID,
37-KU.V,
1-

Index to Photographs

Swan Falls Dam
Spanning Snake River
Kuna Vicinity
Owyhee County
Ada County
Idaho

HAER No. ID-20

NOTE: Photographs No. ID-20-4, ID-20-5, ID-20-7, ID-20-10 through ID-20-15, ID-20-19 through ID-20-24, ID-20-27, ID-20-27, ID-20-29, ID-20-30, and ID-20-32 through ID-20-89 were taken by Michael L. Cordell, photographer, September 1984

Photographs No. ID-20-1 through ID-20-3, ID-20-6, ID-20-8, ID-20-9, ID-20-16 through ID-20-18, ID-20-25, ID-20-26, ID-20-28, ID-30-31, and ID-20-90 were taken by Duane W. Garrett, photographer, July 21, 1984

[In the field record are a series of photographs taken of nameplates on the generators and other equipment in the powerhouse. These have been given the HAER numbers ID-20-111 through ID-20-125.]

- ID-20-1 VIEW OF SWAN FALLS DAM AND SNAKE RIVER CANYON, LOOKING DOWNSTREAM TO WEST FROM NORTH CANYON RIM
- ID-20-1 VIEW OF SWAN FALLS DAM AND SNAKE RIVER CANYON, LOOKING UPSTREAM TO SOUTH AND EAST FROM ONE-THIRD OF THE WAY UP THE CANYON ROAD
- ID-20-3 TELEPHOTO VIEW OF SWAN FALLS DAM AND SNAKE RIVER CANYON, LOOKING UPSTREAM TO SOUTH AND EAST FROM ONE-THIRD OF THE WAY UP THE CANYON ROAD
- ID-20-4 VIEW OF SWAN FALLS DAM, LOOKING DOWNSTREAM TO SOUTH AND WEST FROM THE CANYON ROAD
- ID-20-5 VIEW SHOWING THE DOWNSTREAM SIDE OF SWAN FALLS DAM AND POWER HOUSE, LOOKING UPSTREAM TO SOUTH FROM THE A MOUND OF DEBRIS ABOUT THIRTY TO FORTY FEET ABOVE THE RIVER
- ID-20-6 VIEW SHOWING THE DOWNSTREAM SIDE OF SWAN FALLS DAM AND SPILLWAY, LOOKING UPSTREAM TO EAST
- ID-20-7 VIEW FROM THE RIGHT BANK, SHOWING THE DOWNSTREAM SIDE OF SPILLWAY AND ROCK ISLAND, LOOKING SOUTH SOUTHWEST
- ID-20-8 WIDE ANGLE VIEW ON ROCK ISLAND, LOOKING SOUTH

Swan Falls Dam
HAER No. ID-20
Index to Photographs
(Page 2)

- ID-20-9 DETAIL VIEW OF WATER TANKS ON ROCK ISLAND, LOOKING NORTH
- ID-20-10 UPSTREAM SIDE VIEW OF SPILLWAY, SHOWING ROCK ISLAND AND
WATER TANK, LOOKING NORTHWEST FROM DOCK
- ID-20-11 VIEW SHOWING TOP OF SPILLWAY, TAKEN FROM TOP OF WATER
TANK ON ISLAND, LOOKING WEST SOUTHWEST TOWARD LEFT BANK
- ID-20-12 VIEW SHOWING UPSTREAM SIDE OF SPILLWAY (WITHOUT WIND),
LOOKING DOWNSTREAM FROM LEFT BANK TOWARD RIGHT BANK
(NORTH).
- ID-20-13 VIEW SHOWING DOWNSTREAM SIDE OF SPILLWAY, LOOKING
UPSTREAM (SOUTH SOUTHWEST) FROM CONSTRUCTION AREA.
WATER TANK ON LEFT OF PHOTOGRAPH.
- ID-20-14 DETAIL VIEW OF STONE WALL OF SPILLWAY, TAKEN BY HANGING
OVER SPILLWAY, LOOKING WEST SOUTHWEST TOWARD LEFT BANK
- ID-20-15 VIEW OF DOWNSTREAM SIDE OF SPILLWAY, SHOWING ROAD GRADE
AND LAVA FORMATIONS IN RIGHT CANYON WALL, LOOKING EAST
NORTHEAST TOWARD RIGHT BANK FROM LEFT BANK (TAKEN IN
LATE AFTERNOON)
- ID-20-16 VIEW OF SPILLWAY, LOOKING DOWNSTREAM FROM LEFT BANK
TOWARD NORTH
- ID-20-17 VIEW OF NORTH DAM AND POWERHOUSE, LOOKING DOWNSTREAM
FROM LEFT BANK TOWARD SOUTHWEST
- ID-20-18 VIEW OF DOWNSTREAM SIDE OF SPILLWAY, SHOWING DETAILS OF
GATES AND ISLANDS BELOW SPILLWAY, LOOKING EAST
- ID-20-19 DETAIL VIEW OF SPILLWAY, SHOWING WOODEN GATES AND
CONCRETE, TAKEN FROM OLDER STONE WALL, LOOKING NORTHEAST
FROM LEFT BANK
- ID-20-20 DETAIL VIEW OF SPILLWAY, SHOWING GATE OPENING MECHANISM
FROM LEFT SIDE OF SPILLWAY, LOOKING NORTH NORTHWEST
TOWARD RIGHT BANK
- ID-20-21 DETAIL VIEW OF SPILLWAY, SHOWING GATE OPENING MECHANISM,
LOOKING APPROX. NORTH DOWN INTO GATE OPENING COVER

Swan Falls Dam
HAER No. ID-20
Index to Photographs
(Page 3)

- ID-20-22 DETAIL VIEW OF SPILLWAY, SHOWING GATE OPENING MECHANISM,
LOOKING NORTHEAST TOWARD RIGHT BANK
- ID-20-23 DETAIL VIEW OF SPILLWAY, SHOWING CRANE AND CRANE RAIL,
LOOKING NORTHEAST TOWARD ISLAND AND WATER TANK
- ID-20-24 VIEW SHOWING PORTION OF OLD STONE WALL ON LEFT BANK NEAR
SPILLWAY, LOOKING WEST
- ID-20-25 VIEW OF DOWNSTREAM SIDE OF NORTH DAM, SHOWING GATES,
LOOKING SOUTHEAST
- ID-20-26 VIEW OF FISH LADDER AT NORTH DAM, LOOKING SOUTH TOWARD
LEFT BANK
- ID-20-27 VIEW OF FISH LADDER FROM ABOVE SLUICeway, LOOKING DOWN
NORTHWEST FROM ABOVE
- ID-20-28 VIEW OF SWITCHYARD ON ISLAND, LOOKING NORTH
- ID-20-29 VIEW OF IRON POWER POLE, LOOKING WEST TOWARD LEFT BANK
FROM WINDOW OF POWERHOUSE ADDITION
- ID-20-30 VIEW OF POWERHOUSE FROM UPSTREAM, SHOWING ALL THREE
SECTIONS, LOOKING DOWNSTREAM (SOUTHWEST)
- ID-20-31 VIEW OF POWERHOUSE FROM DOWNSTREAM, LOOKING UPSTREAM
(SOUTHEAST)
- ID-20-32 VIEW OF POWERHOUSE FROM DOWNSTREAM, LOOKING TOWARD
LEFT BANK (SOUTHWEST) FROM ROCKS AT BASE OF SLUICeway RUN
- ID-20-33 VIEW OF POWERHOUSE, SHOWING 1907 AND 1913 SECTIONS, LOOKING
UPSTREAM TOWARD SOUTHEAST FROM DOWNSTREAM
CONSTRUCTION SITE
- ID-20-34 VIEW OF POWERHOUSE FROM DOWNSTREAM, SHOWING 1907 SECTION,
SLUICeway, AND FISH LADDER, LOOKING UPSTREAM TOWARD
SOUTHEAST
- ID-20-35 GABLE END VIEW OF 1910 AND 1913 SECTIONS OF POWERHOUSE,
SHOWING EXTERIOR WALKWAY, LOOKING TOWARD RIGHT BANK
FROM TOP OF WATER TANK

Swan Falls Dam
HAER No. ID-20
Index to Photographs
(Page 4)

- ID-20-36 GABLE END VIEW OF 1907 AND 1913 SECTIONS OF POWERHOUSE, SHOWING INTAKE GATE OPENING EQUIPMENT, LOOKING WEST TOWARD LEFT BANK FROM FENCE BY PASTURE ON RIGHT BANK
- ID-20-37 END VIEW OF 1910 SECTION OF POWERHOUSE FROM WALKWAY TO SPILLWAY BELOW COOLANT TANK, LOOKING NORTHEAST TOWARD RIGHT BANK
- ID-20-38 INTERIOR OVERVIEW OF 1907 SECTION OF POWERHOUSE, LOOKING NORTHEAST FROM THE STAIRWAY LANDING ON THE LEFT BANK SIDE OF THE SECTION
- ID-20-39 INTERIOR VIEW OF CONCRETE ROOF STRUCTURE IN ATTIC OF 1907 SECTION OF POWERHOUSE, FACING RIGHT BANK FROM ABOUT FIVE FEET IN FRONT OF DOOR
- ID-20-40 VIEW OF COMPRESSOR IN 1907 SECTION OF POWERHOUSE, LOOKING DOWNSTREAM FROM UPSTREAM SIDE
- ID-20-41 VIEW OF COOLING PUMPS IN LOWER LEVEL OF 1907 SECTION OF POWERHOUSE, LOOKING UPSTREAM FROM DOWNSTREAM SIDE
- ID-20-42 INTERIOR VIEW OF 1907 SECTION OF POWERHOUSE, UPSTAIRS, SHOWING WALL ABOVE THE MAIN ENTRANCE AND ROUND WINDOW, LOOKING TOWARD RIGHT BANK. See ID-20-36 for exterior view.
- ID-20-43 INTERIOR VIEW OF 1907 SECTION OF POWERHOUSE, UPSTAIRS, SHOWING ROUND WINDOW AND WALL, LOOKING TOWARD LEFT BANK AND DOWN INTO 1913 (MIDDLE) SECTION FROM RIGHT BANK
- ID-20-44 VIEW SHOWING SUMP PUMP ROOM IN 1907 SECTION OF POWERHOUSE, LOOKING STRAIGHT DOWN INTO VALVES AND PIPES. CAMERA ORIENTATION IS FROM RIGHT BANK, FACING TOWARDS LEFT BANK, AND PERPENDICULAR TO RIVER FLOW.
- ID-20-45 VIEW SHOWING STOP GATE COVERS IN 1907 SECTION OF POWERHOUSE, LOOKING SOUTHWEST TOWARD LEFT BANK FROM JUST INSIDE MAIN ENTRY ON RIGHT BANK SIDE
- ID-20-46 VIEW SHOWING PART OF CRANE AND STOP GATES IN 1907 SECTION OF POWERHOUSE, LOOKING DOWNSTREAM (ABOUT NORTHWEST) FROM JUST INSIDE MAIN ENTRANCE

Swan Falls Dam
HAER No. ID-20
Index to Photographs
(Page 5)

- ID-20-47 VIEW OF EXCITER UNIT IN 1910 SECTION OF POWERHOUSE, LOOKING UPSTREAM AND SOUTH FROM THE GALLERY
- ID-20-48 VIEW OF EXCITER ROOM ON LOWER LEVEL OF 1910 SECTION OF POWER, LOOKING DOWNSTREAM NORTH FROM UPSTREAM SIDE
- ID-20-49 VIEW OF EXCITER GENERATORS IN 1910 SECTION OF POWERHOUSE, SHOWING STAIRS TO CONTROL ROOM, LOOKING TOWARD DOWNSTREAM SIDE FROM UPSTREAM SIDE
- ID-20-50 VIEW OF EXCITER GENERATOR IN 1910 SECTION OF POWERHOUSE, LOOKING APPROXIMATELY SOUTHWEST INTO THE CORNER BELOW THE CONTROL ROOM FROM DOWNSTREAM SIDE AT BASE OF CONTROL ROOM STAIRWAY
- ID-20-51 VIEW OF MAIN FLOOR GALLERY IN 1910 SECTION OF POWERHOUSE, TAKEN DIAGONALLY ACROSS THE ROOM TOWARDS UPSTREAM SIDE, LOOKING TOWARD CONTROL ROOM
- ID-20-52 OVERVIEW OF MAIN FLOOR, LOOKING TOWARD RIGHT BANK FROM CONTROL ROOM DOOR
- ID-20-53 DETAIL VIEW INSIDE GENERATOR COVER OF A TYPICAL ELECTRICAL GENERATOR, LOOKING IN DIRECTION OF LEFT BANK, PERPENDICULAR TO RIVER FLOW
- ID-20-54 VIEW OF CONTROL PANELS, CONTROL ROOM, IN 1910 SECTION OF POWERHOUSE, LOOKING SOUTHEAST TOWARD UPSTREAM SIDE OF BUILDING
- ID-20-55 UPSTREAM VIEW OF SLUICeway, LOOKING DOWNSTREAM, APPROXIMATELY NORTHWEST, FROM RIGHT BANK
- ID-20-56 UPSTREAM VIEW OF SLUICeway, SHOWING STONE WALL AND GABLE END OF POWERHOUSE, LOOKING DOWNSTREAM FROM RIGHT BANK
- ID-20-57 VIEW SHOWING SLUICeway GATE CONTROL MECHANISM, LOOKING NORTHWEST
- ID-20-58 VIEW SHOWING SLUICeway CLUTCH MECHANISM, LOOKING NORTHWEST. See ID-20-S5.

Swan Falls Dam
HAER No. ID-20
Index to Photographs
(Page 6)

- ID-20-59 VIEW SHOWING SLUICeway WITH GATES OPEN, LOOKING UPSTREAM (SOUTHWEST) FROM ROCKS AT BASE OF SLUICeway
- ID-20-60 VIEW OF WALKWAY ABOVE SLUICeway LEADING TO MAIN ENTRANCE OF POWERHOUSE, LOOKING SOUTHWEST
- ID-20-61 VIEW OF EXCITER SLUICeway BELOW AND OUTSIDE OF 1910 SECTION OF POWER, LOOKING DIRECTLY DOWNSTREAM (NORTHWEST)
- ID-20-62 INTERIOR VIEW OF SLUICeway MOTOR HOUSE, LOOKING SOUTHWEST TOWARD LEFT BANK
- ID-20-63 VIEW OF TYPICAL TURBINE IN TURBINE WELL IN POWERHOUSE, LOOKING DOWN THE SHAFT FROM JUST ABOVE NORMAL WATER LEVEL. LADDER IS ON DOWNSTREAM WALL. PHOTOGRAPHER STOOD ON DECK SHOWN IN LOWER LEFT CORNER
- ID-20-64 VIEW OF TURBINE UNDER CONSTRUCTION IN TURBINE WELL. SAME ORIENTATION AS IN ABOVE PHOTO, WITH LADDER ON DOWNSTREAM WALL
- ID-20-65 VIEW OF SINGLE PHASE TRANSFORMERS, UNITS 1 AND 2, IN POWERHOUSE, LOOKING NORTHWEST DIRECTLY TOWARD DOWNSTREAM WALL
- ID-20-66 VIEW SHOWING RHEOSTATS FOR UNITS 1 AND 2 IN CONTROL ROOM OF POWERHOUSE, LOOKING INTO UPSTREAM SIDE OF ROOM
- ID-20-67 VIEW OF UNIT 1 AND EXCITER RHEOSTAT IN 1910 SECTION OF POWERHOUSE, LOOKING TOWARD UPSTREAM CORNER IN DIRECTION OF LEFT BANK. PHOTO ALSO SHOWS OVERHEAD CRANE AND ITS RELATIONSHIP TO CONTROL ROOM AT FAR END
- ID-20-68 VIEW SHOWING ELECTRICAL EQUIPMENT FOR UNITS 1 AND 2, LOOKING SOUTHEAST THROUGH DOOR TO BAY NO. 2 TOWARDS UPSTREAM SIDE OF BUILDING
- ID-20-69 VIEW SHOWING GENERATOR NO. 1 AND ASSOCIATED EQUIPMENT; BANK NO. 1, BAY NO. 1 WITH EXCITER AND RHEOSTATS NO. 3 THROUGH 6, LOOKING UPSTREAM (SOUTH) TOWARD LEFT BANK

Swan Falls Dam
HAER No. ID-20
Index to Photographs
(Page 7)

- ID-20-70 VIEW OF UNIT 2 THROUGH ACCESS DOOR, LOOKING DOWN AT MAIN SHAFT. NOTE WELDER'S SIGNATURE IN SHADOWS IN UPPER LEFT CORNER AND PHOTOGRAPHER'S STROBE POWER CABLE IN LOWER RIGHT CORNER. ORIENTATION OF CAMERA IS FACING LEFT BANK, PERPENDICULAR TO RIVER FLOW
- ID-20-71 OVERHEAD DETAIL VIEW OF GENERATOR 2 IN POWERHOUSE, LOOKING STRAIGHT DOWN ON GENERATOR FROM GALLERY, WITH CAMERA FACING UPSTREAM
- ID-20-72 "UNDERVIEW" OF GENERATOR COVER OF UNIT 2, TAKEN ON FLOOR BELOW MAIN FLOOR AND LOOKING AT MAIN SHAFT TURN. CAMERA FACES EAST TOWARD UPSTREAM WALL
- ID-20-73 VIEW SHOWING SINGLE PHASE TRANSFORMERS FOR UNIT 5 IN POWERHOUSE, LOOKING NORTHWEST AT DOWNSTREAM WALL. NOTE DOOR AT LEFT
- ID-20-74 OVERHEAD DETAIL VIEW OF GENERATOR 6, LOOKING UPSTREAM (SOUTHEAST) FROM GALLERY
- ID-20-75 VIEW SHOWING RHEOSTATS FOR GENERATORS 3 THROUGH 6 IN 1910 SECTION OF POWERHOUSE, LOOKING SOUTHWEST IN DIRECTION OF LEFT BANK FROM BESIDE THE EXCITER
- ID-20-76 "UNDERVIEW" OF GENERATOR 6, TYPICAL, TAKEN AT WATER LEVEL, LOOKING UPSTREAM TOWARD LEFT
- ID-20-77 VIEW OF TYPICAL COOLING FAN FOR GENERATOR 6, LOOKING UPSTREAM (SOUTHEAST)
- ID-20-78 VIEW SHOWING RHEOSTATS FOR GENERATORS 7 THROUGH 10 IN 1910 SECTION OF POWERHOUSE, LOOKING WEST TOWARD LEFT BANK INTO DOWNSTREAM CORNER
- ID-20-79 VIEW OF WICKET GATE CONTROL FOR UNIT 10 IN POWERHOUSE, LOOKING NORTH TOWARD DOWNSTREAM RIGHT BANK FROM ABOUT TWENTY FEET INSIDE MAIN ENTRANCE
- ID-20-80 "UNDERVIEW" OF GENERATOR 10 IN POWERHOUSE, LOOKING UP WITH CAMERA FACING DOWNSTREAM SIDE

Swan Falls Dam
HAER No. ID-20
Index to Photographs
(Page 8)

- ID-20-81 VIEW SHOWING GENERATOR SHAFT BRAKE OF UNIT 10, TAKEN ON LOWER, LOOKING DOWNSTREAM
- ID-20-82 VIEW SHOWING ELECTRICAL EQUIPMENT FOR GENERATORS 9 AND 10 IN BAY 5, LOOKING SOUTH TOWARD UPSTREAM SIDE
- ID-20-83 VIEW OF TRASH RACKS FOR UNIT 10 IN LOWER LEVEL OF 1907 SECTION OF POWERHOUSE, LOOKING NORTHEAST TOWARD MAIN ENTRANCE AND FACING RIGHT BANK
- ID-20-84 VIEW OF TRANSFORMERS IN GALLERY OF 1907 SECTION OF POWERHOUSE, LOOKING NORTHWEST TOWARD DOWNSTREAM WALL AND LEFT BANK
- ID-20-85 VIEW OF TRANSFORMERS IN GALLERY OF 1907 SECTION OF POWERHOUSE, LOOKING SOUTHWEST TOWARD LEFT BANK
- ID-20-86 CLOSE-UP VIEW OF TRANSFORMERS IN GALLERY OF 1907 SECTION OF POWERHOUSE, LOOKING SOUTHWEST TOWARD LEFT BANK. WINDOW IS ON DOWNSTREAM SIDE
- ID-20-87 VIEW OF TRANSFORMERS IN GALLERY OF 1907 SECTION OF POWERHOUSE, LOOKING SOUTHWEST TOWARD LEFT BANK, WITH DOWNSTREAM WALL ON RIGHT OF PHOTOGRAPH
- ID-20-88 VIEW OF SINGLE PHASE TRANSFORMERS IN MIDDLE SECTION (1913) OF POWERHOUSE, LOOKING NORTHWEST, DIRECTLY AT DOWNSTREAM WALL
- ID-20-89 VIEW OF TRANSFORMERS IN 1913 SECTION OF POWERHOUSE, LOOKING NORTHEAST TOWARD RIGHT BANK ALONG DOWNSTREAM WALL
- ID-20-90 VIEW OF SINGLE PHASE TRANSFORMERS IN 1910 SECTION OF POWERHOUSE, LOOKING SOUTHWEST, DIRECTLY AT DOWNSTREAM WALL

The following four images are photographic copies of photographs from the Records Center of the Idaho Power Company. [In every case, the original photographer is not known, nor are there specific months of the year in which the photo was taken. For the last two photographs, the exact year is not known. These two photos are included because they show the dam as it looked prior to the date of a known modification described in the written report.]

- ID-20-91 VIEW OF DAM IN 1901, LOOKING TOWARD RIGHT BANK
- ID-20-92 VIEW OF DAM IN 1919, LOOKING DOWNSTREAM
- ID-20-93 UNDATED VIEW OF DAM, LOOKING TOWARD RIGHT BANK. PHOTO WAS TAKEN PRIOR TO SPILLWAY IMPROVEMENTS OF 1936
- ID-20-94 UNDATED VIEW OF DAM, LOOKING TOWARD LEFT BANK. PHOTO WAS TAKEN AFTER 1936 AND PRIOR TO CONSTRUCTION OF NEW SPILLWAY IN 1986

The following are photographic copies of drawings of Swan Falls Dam. All of the originals are owned by the Idaho Power Company and are stored in the company's map vault in Boise, Idaho. [The drawings are presented in the chronological order of their date of preparation. Unless otherwise noted, the name of the delineator is unknown.]

ID-20-95 through ID-20-99, taken in April 1914, show the dam as it was when acquired by the Idaho Railway Light and Power Company, one of the predecessor companies of the Idaho Power Company.

- ID-20-95 SWAN FALLS POWER HOUSE - FLOOR PLAN.
(20B-21032)
- ID-20-96 SWAN FALLS POWER HOUSE - BALCONY FLOOR PLAN.
(20B-21031)
- ID-20-97 SWAN FALLS POWER HOUSE - SECTION THROUGH 1907 INSTALLATION
(20B-21045)
- ID-20-98 SWAN FALLS POWER HOUSE - SECTION THROUGH 1910 INSTALLATION
(20C-21131)
- ID-20-99 SWAN FALLS POWER HOUSE - SECTION THROUGH 1913 INSTALLATION
(20C-21-69)
- ID-20-100 PLAN AND SECTION OF SWAN FALLS (SPILLWAY) DAM
(B-46) December 1916 with revisions up to 1918.

The following five maps were drawn for submission to the Federal Power Commission as part of the requirements for licensing. The drawings show changes since 1914. All were drawn by C.W.S., October 1922, Idaho Power Company:

- ID-20-101 SWAN FALLS DAM EXHIBIT L - DOWNSTREAM AND UPSTREAM ELEVATIONS WITH KEY PLAN FOR SECTIONS OF POWER HOUSE
Sheet 1 of 5. (ZE-1507)
- ID-20-102 SWAN FALLS EXHIBIT L - CROSS SECTION
Sheet 2 of 5. (ZE-1507)
- ID-20-103 SWAN FALLS EXHIBIT L - CROSS SECTION
Sheet 3 of 5. (ZE-1507)
- ID-20-104 SWAN FALLS EXHIBIT L - CROSS SECTION
Sheet 4 of 5. (ZE-1507)
- ID-20-105 SWAN FALLS EXHIBIT L - CROSS SECTION
Sheet 5 of 5. (ZE-1507)
[This drawing duplicates much of what was on #7 (B-46), but shows more detail.]

The following first three drawings (ZE-3707), courtesy of the Idaho Power Company, show changes made between 1922 and 1936 and indicate date of change:

- ID-20-106 SWAN FALLS EXHIBIT L - PLAN AND SECTIONS
Sheet 1 of 3. (ZE-3707) July 1936,
- ID-20-107 SWAN FALLS EXHIBIT L - PLAN AND SECTIONS
Sheet 2 of 3. (ZE-3707) July 1936
- ID-20-108 SWAN FALLS EXHIBIT L - PLAN AND SECTIONS
Sheet 3 of 3. (ZE-3707) July 1936
(This drawing also shows steel tower on downstream side of dam.)
- ID-20-109 SWAN FALLS - FISH LADDER DETAIL
April 1940. (B-4544)
The fish ladder was placed in operation on September 17, 1922.
- ID-20-110 SWAN FALLS - SPILLWAY DAM
July 1936. (ZE-3708)
(This drawing shows extension of rock fill from left bank to spillway.)